Dreizehntes Harzseminar

Strukturbildung in Chemie und Biophysik

Goslar-Hahnenklee (OT Bockswiese), 26 – 28 February 2009

Organizers: E. Bodenschatz, M. Hauser, R. Imbihl, A. S. Mikhailov



Programme

Thursday, 26 February

15:30 - 15:40	Opening
15:40 - 16:20	Jim Evans (Uni Hannover):
	Generic-two phase coexistence in a lattice-gas version of Schloegl's second model for autocatalysis
16:20 - 16:40	Santiago Gil (Fritz-Haber-Institute, Berlin):
	Random forcing of globally coupled oscillator populations
16:40 – 17:10	Coffee break
17.10 – 17:50	Vladimir Zykov (TU Berlin):
	Hysteretic transition between pinned and unpinned spiral waves
17:50 - 18:30	Pavel Gurevich (FU Berlin):
	Evolutionary equations with hysteresis-like switches
19:00	Dinner

Friday, 27 February

09:00 - 09:40	Ronny Straube (MPI Magdeburg):
00.40 10.20	Anti-spiral waves in glycolysis Holory Floobsis (Fritz, Hohor, Institute Borlin):
09:40 – 10:20	Holger Flechsig (Fritz-Haber-Institute Berlin): Nonlinear electic dynamics and machine evalue of HVC believes
	Nonlinear elastic dynamics and machine cycles of HVC helicase
10:20 – 10:50	Coffee break
10:50 – 11:10	Christian Warnke (Uni Magdeburg):
	Recording and stimulation of glycolytic oscillations by electrodes and
	high electron mobility transistors (HEMTs)
11:10 - 11:40	Markus Dahlem (TU Berlin):
	Two-dimensional wave patterns of spreading depolarization: retracting, cycling, and standing waves
11:50 – 12:10	Stefan Fruhner (TU Berlin):
11.50 12.10	An experimentally based approach to introduce cardiac motion into
	simulations
	Simulations
12:30	Lunch
15:30 – 15:50	Mathias Theves (MPI Göttingen):
	Quantitative Studies of Dictyostelium discoideum chemotaxis
15:50 – 16:10	Juliane Zimmermann (Max-Delbrück-Centre Berlin):
	Modeling the Dynamics of the Actin Network in Crawling Cells
16:10 – 16:30	Christian Westendorf (MPI Göttingen):
	Actin dynamics and directional motion in response to short-time
	periodic stimuli
16:30 – 17:00	Coffee break
17:00 – 17:40	Jacob Löber (TU Berlin):
	Wave propagation in heterogeneous media
17:40 - 18:00	Wave propagation in heterogeneous media Florian Lovis (Uni Hannover):
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17:40 – 18:00 18:30	Florian Lovis (Uni Hannover): Pattern formation during catalytic water formation on ultrathin V-

Saturday, 28 February

09:00 - 09:40	Kirsten Harth (Uni Magdeburg):
	Towards two-dimensional colloids: inclusions in free-standing smectic
	films
09:40 - 10:00	Hayk Zakaryan (SEUA, Yerevan):
	Non-stationary phenomena during frontal polymerization
10:00 - 10:20	Oliver Rudzick (Fritz-Haber-Institute, Berlin):
	Wave reversal in oscillatory media - perspectives for experiments?
10:20 - 10:50	Coffee break
10.50 11.10	
10:50 – 11:10	David Fischer (Uni Magdeburg):
	Axial transport of granular material in a horizontally rotating drum
11:10 – 11:30	Kevin Thurley (Max-Delbrück-Centre Berlin):
	Dynamics of Ca ²⁺ -Channel-Clusters
12:00	Lunch